

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 1	Complete if Known	
	Application Number	10/550,165
	Filing Date	July 21, 2006
	First named Inventor	Paul B. Savage
	Group Art Unit	1623
	Examiner name	Ganapathy Krishnan
	Attorney Docket Number	017968-9010 US00
U.S. Patent Documents		

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
/G.K./	5,767,092	Koezuka et al.	6/16/1998
	6,531,453	Taniguchi et al.	3/11/2003
	6,747,010	Taniguchi et al.	6/8/2004
	2002/0115624	Behar et al.	8/22/2002
	2003/0139351	Yagita	8/14/2003
	2003/0153514	Yagita	8/14/2003
	2004/0266726	Yagita	12/30/2004
	2006/0073118	Bendelac et al.	4/6/2006
	2008/0095787	Teyton	4/24/2008
/G.K./	11/814103	Teyton et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
/G.K./	WO	2005/000348	ISIS Innovation et al.	1/6/2005		
	WO	2006/083671	Brigham Young University et al.	8/10/2006		
	WO	2007/118234	The Scripps Research Institute et al.	10/18/2007		
/G.K./	WO	2008/005824	The Scripps Research Institute et al.	1/10/2008		

Examiner Signature	/Ganapathy Krishnan/	Date Considered	09/09/2009
--------------------	----------------------	-----------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 0231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/550,165
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	July 21, 2006
				First Named Inventor	Paul B. Savage
				Group Art Unit	1623
				Examiner Name	Ganapathy Krishnan
Sheet	1	of	4	Attorney Docket Number	017968-9010 US00

(use as many sheets as necessary)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
/G.K./	ANDO, H. et al., "Solid-phase capture-release strategy applied to oligosaccharide synthesis on a soluble polymer support," Angew. Chem. Int. Ed. (2001) 40:4725-4728	
	BENDELAC, A. et al., "Increased interleukin 4 and immunoglobulin E production in transgenic mice overexpressing NK1 T cells," J. Exp. Med. (1996) 184:1285-1293	
	BRIGL, M. et al., "CD1: T cell function and antigen presentation," Annu. Rev. Immunol. (2004) 22:817-890	
	BRIGL, M. et al., "Mechanism of CD1d-restricted natural killer T cell activation during microbial infection," Nat. Immunol. (2003) 4:1230-1237	
	CANTU, C. et al., "The paradox of immune molecular recognition of alpha-galactosylceramide: low affinity, low specificity for CD1d, high affinity for alpha beta TCRs," J. Immunol. (2003) 170:4673-4682	
	FUJII, S-I. et al., "Activation of natural killer T cells by alpha-galactosylceramide rapidly induces the full maturation of dendritic cells in vivo and thereby acts as an adjuvant for combined CD4 and CD8 T cell immunity to a coadministered protein," J. Exp. Med. (2003) 198:267-279	
	GARRITY, G.M. et al., Taxonomic Outline of the Prokaryotic Genera, Bergey's Manual of Systematic Bacteriology, 2nd Edition (April 2001)	
	GODFREY, D.I. et al., "Going both ways: immune regulation via CD1d-dependent NKT cells," J. Clin. Invest. (2004) 114(10):1379-1388	
/G.K./	GODFREY, D.I. et al., "The elusive NKT cell antigen - is the search over?" Science (2004) 306:1687-1688	

Examiner Signature	/Ganapathy Krishnan/	Date Considered	09/09/2009
-----------------------	----------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				Complete if Known	
				Application Number	10/550,165
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	July 21, 2006
				First Named Inventor	Paul B. Savage
				Group Art Unit	1623
				Examiner Name	Ganapathy Krishnan
				Attorney Docket Number	017968-9010 US00
Sheet	2	of	4		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
/G.K./		GOFF, R.D. et al., "Effects of lipid chain lengths in alpha-galactosylceramides on cytokine release by natural killer T cells," J. Am. Chem. Soc. (2004) 126:13602-13603
		GUI, M. et al., "TCR beta chain influences but does not solely control autoreactivity of V alpha 14J28IT cells," J. Immunol. (2001) 167(11):6239-6246
		GUMPERZ, J.E. et al., "Functional distinct subsets of CD1d-restricted natural killer T cells revealed by CD1d tetramer staining," J. Exp. Med. (2002) 195(5):625-636
		HERMANS, I.F. et al., "NKT cells enhance CD4+ and CD8+ T cell responses to soluble antigen in vivo through direct interaction with dendritic cells," J. Immunol. (2003) 171:5140-5147
		IIDA, N. et al., "A sulfated glucosylceramide from rat kidney," J. Biol. Chem. (1989) 264(10):5974-5980
		ISMAIL, N. et al., "Overproduction of TNF-alpha b CD8+ type 1 cells and down-regulation of IFN-gamma production by CD4+ Th1 cells contribute to toxic shock-like syndrome in an animal model of fatal monocytotropic ehrlichiosis," J. Immunol. (2004) 172:1786-1800
		KARADIMITRIS, A. et al., "Human CD1d-glycolipid tetramers generated by in vitro oxidative refolding chromatography," Proc. Natl. Acad. Sci. USA (2001) 98(6):3294-3298
		KINJO, Y. et al., "Recognition of bacterial glycosphingolipids by natural killer T cells," Nature (2005) 434:520-525
/G.K./		KRONENBERG, M., "Toward an understanding of NKT cell biology: progress and paradoxes," Ann. Rev. Immunol (2005) 23:877-900

Examiner Signature	/Ganapathy Krishnan/	Date Considered	09/09/2009
-----------------------	----------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/550,165
				Filing Date	July 21, 2006
				First Named Inventor	Paul B. Savage
				Group Art Unit	1623
				Examiner Name	Ganapathy Krishnan
				Attorney Docket Number	017968-9010 US00
Sheet	3	of	4		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
/G.K./	LEE, P.T. et al., "Testing the NKT cell hypothesis on human IDDM pathogenesis," J. Clin. Invest. (2002) 110(6):793-800	
	MATTNER, J. et al., "Exogenous and endogenous glycolipid antigens activate NKT cells during microbial infections," Nature (2005) 434:525-529	
	MATSUDA, J.L. et al., "Tracking the response of natural killer T cells to a glycolipid antigen using CD1d tetramers," J. Exp. Med. (2000) 192(5):741-753	
	PETROVSKY, N. et al., "Vaccine adjuvants: current state and future trends," Immunol. Cell Biol. (2004) 82:488-496	
	ROCK, K.L. et al., "Natural endogenous adjuvants," Springer Semin. Immunopathol. (2005) 26:231-246	
	SIDOBRE, S. et al., "CD1d tetramers: a powerful tool for the analysis of glycolipid reactive T cells," J. Immunol. Methods (2002) 268:107-121	
	VAN KAER, L., "Alpha-galactosylceramide therapy for autoimmune diseases: prospects and obstacles," Nat. Rev. Immunol. (2005) 5:31-42	
	WU et al., "Bacterial glycolipids and analogs as antigen for CD1d-restricted NKT cells," PNAS (2005) 102(5):1351-1356	
/G.K./	ZAJONC, D.M. et al., "Structure and function of a potent agonist for the semi-invariant natural killer T cell receptor," Nat. Immunol. (2005) 6:810-818	

Examiner Signature	/Ganapathy Krishnan/	Date Considered	09/09/2009
-----------------------	----------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB number.

Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/550,165
				Filing Date	July 21, 2006
				First Named Inventor	Paul B. Savage
				Group Art Unit	1623
				Examiner Name	Ganapathy Krishnan
Sheet	4	of	4	Attorney Docket Number	017968-9010 US00

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.	
/G.K./	ZHOU, D. et al., "Lysosomal glycosphingolipid recognition by NKT cells," Science (2004) 306:1786-1789	
	International Search Report and Written Opinion of International Searching Authority of PCT/US2007/072451 dated November 27, 2007	
	International Search Report and Written Opinion of International Searching Authority of PCT/US06/002781 dated December 20, 2006	
	Supplementary Search Report of the European Patent Office for Application No. 03816701.1 dated September 17, 2007	
	European Office Action for Application No. 03816701.1 dated November 29, 2007	
	Written Opinion of International Preliminary Examining Authority for International Application No. PCT/US03/08530 dated June 30, 2005	
	International Search Report of International Searching Authority for Application No. PCT/US03/08530 dated August 3, 2004	
/G.K./	International Search Report and Written Opinion of International Searching Authority for International Application No. PCT/US07/66250 dated October 15, 2007	

Examiner Signature	/Ganapathy Krishnan/	Date Considered	09/09/2009
-----------------------	----------------------	--------------------	------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.